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APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 09/063,227 04/20/1998 JESUS W. CASAS-BEJAR P-7109 4100 EXAMINER 27581 7590 09/08/2004 MEDTRONIC, INC. MAIORINO, ROZ 710 MEDTRONIC PARKWAY NE ART UNIT PAPER NUMBER MS-LC340 MINNEAPOLIS, MN 55432-5604 3763

DATE MAILED: 09/08/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		ΜΛ
	Application No.	Applicant(s)
Office Action Summary	09/063,227	CASAS-BEJAR ET AL.
	Examiner	Art Unit
	Roz Maiorino	3763
The MAILING DATE of this communication ap	pears on the cover sheet with th	ne correspondence address
Period for Reply		
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is tess than thirty (30) days, a replif of the period for reply is specified above, the maximum statutory period. Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply b oly within the statutory minimum of thirty (30) will apply and will expire SIX (6) MONTHS to e, cause the application to become ABANDO	the timely filed days will be considered timely. from the mailing date of this communication. DNED (35 U.S.C. § 133).
Status		
1) Responsive to communication(s) filed on 3/17	<u>7/2004</u> .	•
2a) This action is FINAL . 2b) This action is non-final.		
3) Since this application is in condition for allowance except for formal matters, prosecution as to the ments is		
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D. 11	, 453 O.G. 213.
Disposition of Claims		
4) Claim(s) <u>13-19,24,27,29,33,34,36-39,41,43 and 44</u> is/are pending in the application.		
4a) Of the above claim(s) is/are withdrawn from consideration.		
5) Claim(s) is/are allowed.		
6)⊠ Claim(s) <u>13-19,24,27,29,33,34,36-39,41,43 and 44</u> is/are rejected.		
7) Claim(s) is/are objected to.		
8) Claim(s) are subject to restriction and/	or election requirement.	•
Application Papers		
9) The specification is objected to by the Examin	er.	
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.		
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).		
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).		
11) ☐ The oath or declaration is objected to by the E	xaminer. Note the attached Of	fice Action or form PTO-152.
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).		
a) All b) Some * c) None of:		
1. Certified copies of the priority documents have been received.		
2. Certified copies of the priority documents have been received in Application No		
3. Copies of the certified copies of the pri		eived in this National Stage
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.		
* See the attached detailed Office action for a ils	at of the centified copies not reco	eivea.
Attachment(s)		
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Sumn Paper No(s)/Ma	
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date		nal Patent Application (PTO-152)

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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 1. Claims 1 3, 15, 16, 24, 27, 29, 33, 34, 36, 39, and 41 rejected under 35 U.S.C. 102(b) as being anticipated by Helmus et al (US 5,447,724). Helmus teaches all the claimed subject matter including an implantable medical device (col. 3, Line 31), having a' tissue-contacting surface formed of polyurethane or silicone (col. 2, Lines 41-42) which has a drug such as heparin (col. 6, line 51) or a steroid (col. 6, Line 55) intimately mixed into it (col. 4, lines 20-24 and col. 9, lines 45-46), wherein the drug makes up 2% by weight of the material (col. 7, lines 57-62).

Note that col. 7, lines 57-62 indeed specify the OUTER layer, not the reservoir layer. In col. 7, Lines 57-62, Helmus teaches that the agent in the outer layer is put there to produce a "gradual release elect" alluding to the slower release of the agent at first from the outer layer and gradual increase in the release rate as the more concentrated stores of the same agent start to seep through the outer layer from the inner reservoir layer. Since: this teaches that the agent in the outer layer can be the same as in the inner layer, Helmus' teaching of the reservoir agent being a steroid (col. 6, line 55) is interpreted as referring to physiologically active agents in BOTH

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 37, and 43 are rejected under 35 U.S.C. 103(a) as being unpatentable over Helmus et al (US 5,447,724).

Helmus teaches all the claimed subject matter except for the slightly lower concentrations in claims 37 and 43. Helmus teaches 2% of the material is the drug, whereas the claims call for a maximum of 1 %. In a tissue-contacting wall of a catheter, the amounts of a drug that are needed to achieve a desired release rate vary somewhat based on the specific material that the drug is being mixed into, and also how the catheter was formed (i.e. extrusion process, etc.). Therefore, the examiner takes the position that it would have been obvious to one of ordinary skill in the ad to vary the weight percentage of a drug such a small amount in order to achieve a desired release rate depending on the polymer being used and the manufacturing process (temperature, curing, etc) used to make the catheter.

3. Claim 14 is rejected under 35 U.S.C. 103(a) as being unpatentable over Chait (US 5,727,555) in view of Helmus et al (US 5,447,724).

Chait teaches a catheter having an external fitting coupled to the proximal end, and helical coils as claimed. However, Chait lacks a layer with anti-inflammatory agent

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in it. Helmus teaches an elongate body-inserted member with an anti-inflammatory agent imbedded in the tissue-contacting surface as discussed supra. It would have been obvious to one having ordinary skill in the ad to form the catheter of Chait with the layered structure of Helmus in order to reduce inflammation in the treatment area, since formation of catheters with layers and with drug-saturated layers is well known of catheters.

4. Claims 17-19, 38, and 44 are rejected under 35 U.S.C. 103(a) as being unpatentable over Helmus et al (US 5,447,724) in view of Fearnot et al (US 5,609,629). Helmus teaches all the claimed subject matter except for the steroid being a glucocodicosteroid such as dexamethasone. Fearnot teaches the use of dexamethasone in a drug embedded outer layer of a catheter. It would have been obvious to one of ordinary skill in the ad to use dexamethasone as taught by Fearnot as one of the steroids broadly mentioned by Helmus (col. 6, line 54-55) since dexamethasone is a well-known anti-inflammatory steroid, and as demonstrated by Helmus it is known to use it as the bioactive component of a bioactive surface on a catheter.

Response to Arguments

5. Applicant's arguments filed 3/17/2004 have been fully considered but they are not persuasive. Applicant main argument seems to be the interpretation of "intermit mixing" to be interpreted to result in a homogenous disperse however, intermit mixing is a very broad term. Helmus does teach this intimate mixing once the drug is moved to the outer layer.

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Applicant correctly points out that Helmus does not teach a homogenous disperse of the drug and the polymer, however the applicant has not claimed a homogenous relationship between the drug and the polymer.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Roz Maiorino whose telephone number is 703-305-2336. The examiner can normally be reached on 9am-5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Brian Casler can be reached on 703-308-3552. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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